

# APPARATUS FOR MEASURING A PROPERTY OF A CIGARETTE PAPER WRAPPER AND ASSOCIATED METHOD

## ABSTRACT OF THE DISCLOSURE

An apparatus for measuring a property of a cigarette paper wrapper is provided and includes a sampling device having a first chamber portion capable of being engaged with a corresponding second chamber portion to define a sampling area configured to receive the wrapper such that the wrapper spans the sampling area and separates the chamber portions. A first gas source supplies a carrier gas to the first chamber portion and a second gas source supplies a detectable gas to the second chamber portion. An analyzer device in communication with the first chamber portion receives a resultant gas flow that includes the carrier gas and any of the detectable gas entering the first chamber portion through the wrapper. The analyzer device is capable of determining an amount of the detectable gas in the resultant gas flow so as to thereby determine a property of the cigarette paper wrapper, such as a diffusion coefficient with respect to the detectable gas. An associated method is also provided.